

TOWNSEND and TOWNSEND and CREW LLP

By: *Jon W. Sepe*

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re application of:

CHRISTOPHER THOMAS SEPE

Application No.: 09/621,716

Filed: July 24, 2000

For: DELIVERY INFORMATION  
SYSTEMS AND METHODS

Customer No.: 46718

Confirmation No.: 6440

Examiner: Meinecke Diaz, Susanna M.

Art Unit: 3623

**SUPPLEMENTAL INFORMATION  
DISCLOSURE STATEMENT UNDER  
37 CFR §1.97 and §1.98**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

The references cited on attached forms PTO/SB/08A and PTO/SB/08B are being called to the attention of the Examiner. Copies of the references are enclosed herewith in compliance with the requirements of 37 CFR §1.98(a)(2).

It is respectfully requested that the cited references be expressly considered during the prosecution of this application, and the references be made of record therein and appear among the "references cited" on any patent to issue therefrom.

As provided for by 37 CFR §1.97(g) and (h), no inference should be made that the information and references cited are prior art merely because they are in this statement and no representation is being made that a search has been conducted or that this statement encompasses all the possible relevant information.

This IDS is being filed before the mailing date of the final Office Action or  
Notice of Allowance.

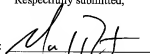
Please charge the IDS fee of \$180 to Deposit Account No. 20-1430. Please  
deduct any additional fees from, or credit any overpayment to, the above-noted Deposit Account.

Respectfully submitted,

Date:

3/30/2002

By:



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Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet **1** of **16****Complete if Known**

Application Number	09/621,716
Filing Date	July 24, 2000
First Named Inventor	SEPE, CHRISTOPHER THOMAS
Art Unit	3623
Examiner Name	Meinecke Diaz, Susanna M.
Attorney Docket Number	018563-003300US

**U.S. PATENT DOCUMENTS**

Examiner Initials*	City No.†	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number Kind Code‡ (if known)			
	AA	US 2,467,432	04-19-1949	Kesling	
	AB	US 3,738,005	06-12-1973	Cohen	
	AC	US 3,916,526	11-04-1975	Schudy	
	AD	US 3,983,028	10-05-1976	Acevedo	
	AE	US 4,014,096	03-29-1977	Dellinger	
	AF	US 4,195,046	03-25-1980	Kesling	
	AG	US 4,348,178	09-07-1982	Kurz	
	AH	US 4,478,580	10-23-1984	Barrut	
	AI	US 4,575,330	03-11-1986	Hull	
	AJ	US 4,575,805	03-11-1986	Moermann et al.	
	AK	US 4,611,288	09-09-1986	Duret et al.	
	AL	US 4,656,860	04-14-1987	Orthuber et al.	
	AM	US 4,663,720	05-05-1987	Duret et al.	
	AN	US 4,742,464	05-03-1988	Duret et al.	
	AO	US 4,763,791	08-16-1988	Halverson et al.	
	AP	US 4,850,884	07-25-1989	Diamond	
	AQ	US 4,889,238	12-28-1989	Batchelor	
	AR	US 4,890,608	01-02-1990	Steer	
	AS	US 4,935,635	06-19-1990	O'Hara	
	AT	US 4,937,928	07-03-1990	van der Zel	
	AU	US 4,964,770	10-23-1990	Steinbichler et al.	
	AV	US 4,975,052	12-04-1990	Spencer et al.	
	AW	US 5,027,281	06-25-1991	Rekow et al.	
	AX	US 5,121,333	06-09-1992	Riley et al.	
	AY	US 5,128,870	07-07-1992	Erdman et al.	
	AZ	US 5,130,064	07-14-1992	Smalley	
	BA	US 5,131,843	07-21-1992	Hilgers et al.	
	BB	US 5,131,844	07-21-1992	Marinaccio et al.	
	BC	US 5,176,517	01-05-1993	Truax	
	BD	US 5,184,306	02-02-1993	Erdman et al.	
	BE	US 5,257,203	10-26-1993	Riley et al.	
	BF	US 5,278,756	01-11-1994	Lemchen et al.	
	BG	US 5,328,362	07-12-1994	Watson et al.	
	BH	US 5,440,326	08-08-1995	Quinn	
	BI	US 5,440,498	08-08-1995	Andersson et al.	

Examiner Signature	Date Considered
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† Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ‡ Applicant is to place a check mark here if English language Translation is attached.

Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE  
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(Use as many sheets as necessary)

Sheet **2** of **16****Complete if Known**

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First Named Inventor	SEPE, CHRISTOPHER THOMAS
Art Unit	3623
Examiner Name	Meinecke Diaz, Susanna M.
Attorney Docket Number	018563-003300US

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Examiner Initial*	Cite No. <sup>1</sup>	Document Number <small>Number Kind Code (if known)</small>	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	BJ	US 5,518,397	05-21-1996	Andreiko et al.	
	BK	US 5,562,448	10-08-1996	Mushabac	
	BL	US 5,614,075	03-25-1997	Andre	
	BM	US 5,621,648	04-15-1997	Crump	
	BN	US 5,655,653	08-12-1997	Chester	
	BO	US 5,733,126	03-31-1998	Andersson et al.	
	BP	US 5,740,267	04-14-1998	Echerer et al.	
	BQ	US 5,742,700	04-21-1998	Yoon et al.	
	BR	US 5,799,100	08-25-1998	Clarke et al.	
	BS	US 5,823,778	10-20-1998	Schmitt et al.	
	BT	US 5,846,115	12-08-1998	Little et al.	
	BU	US 5,857,853	01-12-1999	van Nifferick et al.	
	BV	US 5,880,862	03-09-1999	Andersson et al.	
	BW	US 5,934,288	08-10-1999	Avila et al.	
	BX	US 5,957,686	09-28-1999	Anthony	
	BY	US 6,015,289	01-18-2000	Andreiko et al.	
	BZ	US 6,062,861	05-16-2000	Andersson	
	CA	US 6,068,482	05-30-2000	Snow	
	CB	US 6,099,314	08-08-2000	Kopelman et al.	
	CC	US 6,152,731	11-28-2000	Jordan et al.	
	CD	US 6,217,325	04-17-2001	Chishti et al.	
	CE	US 6,244,861	06-12-2001	Andreiko et al.	
	CF	US 6,309,215	10-30-2001	Phan et al.	
	CG	US 6,315,553	11-13-2001	Sachdeva et al.	
	CH	US 6,322,359	11-27-2001	Jordan et al.	
	CI	US 6,350,120	02-26-2002	Sachdeva et al.	
	CJ	US 6,382,975	05-07-2002	Poirier	
	CK	US 6,388,548	06-04-2002	Muhammad et al.	
	CL	US 6,402,707	06-11-2002	Ernst	
	CM	US 6,482,298	11-19-2002	Bhatnagar	
	CN	US 6,524,101	02-25-2003	Phan et al.	
	CO	US 6,554,611	04-29-2003	Chishti et al.	
	CP	US 6,572,372	06-03-2003	Phan et al.	
	CQ	US 6,629,840	10-07-2003	Chishti et al.	
	CR	US 6,705,863	03-16-2004	Phan et al.	

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Substitute for form 1448A/PTO		<b>Complete if Known</b>	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)		Application Number	09/621,716
		Filing Date	July 24, 2000
		First Named Inventor	SEPE, CHRISTOPHER THOMAS
		Art Unit	3623
		Examiner Name	Meinecke Diaz, Susanna M.
Sheet <b>3</b>	of <b>16</b>	Attorney Docket Number	018563-003300US

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number Kind Code <sup>2</sup> (if known)			
	CS	US 6,722,880	04-20-2004	Chishti et al.	
	CT	US 2002/0006597	01-17-2002	Andreiko et al.	
	CU	US 2003/0224311	12-04-2003	Cronauer	
	CV	US 2003/0009252 A1	01-09-2003	Pavlovskala et al.	
	CW	US 2003/0139834 A1	07-24-2003	Nikolskiy et al.	
	CX	US 2004/0128010 A1	07-01-2004	Pavlovskala et al.	
	CY	US 2005/0055118 A1	03-10-2005	Nikolskiy et al.	
	CZ	US RE 35169	03-05-1996	Lemchen et al.	

FOREIGN PATENT DOCUMENTS								
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document			Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	†*
		Country Code <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (if Any)				
	DA	AU	517102		07-09-1981	Hito Suyehiro		<input type="checkbox"/>
	DB	AU	3031677		05-10-1979	Hito Suyehiro		<input type="checkbox"/>
	DC	AU	5598994		06-08-1994	Ormco Corp		<input type="checkbox"/>
	DD	CA	1121955		04-20-1982	Suyehiro Hito		<input type="checkbox"/>
	DE	DE	2749802		05-11-1978	Suyehiro Hito		<input type="checkbox"/>
	DF	DE	69327681		07-20-2000	Ormco Corp		<input type="checkbox"/>
	DG	EP	0091876		10-19-1983	Duret		<input type="checkbox"/>
	DH	EP	0299490		01-18-1989	Steinbichler		<input type="checkbox"/>
	DI	EP	0376873		07-04-1990	Shafir		<input type="checkbox"/>
	DJ	EP	0490848		06-17-1992	Nobelpharma AB		<input type="checkbox"/>
	DK	EP	0541500		05-12-1993	Nobelpharma AB		<input type="checkbox"/>
	DL	EP	0667753		08-23-1995	Ormco Corp		<input type="checkbox"/>
	DM	EP	0774933		05-28-1997	Sandvik AB		<input type="checkbox"/>
	DN	EP	0731673		09-18-1996	Nobel Biocare AB		<input type="checkbox"/>
	DO	ES	463897		01-01-1980	Hito Suyehiro		<input type="checkbox"/>
	DP	FR	2652256		03-29-1991	Jourda		<input type="checkbox"/>
	DQ	GB	1550777		08-22-1979	Hito Suyehiro		<input type="checkbox"/>
	DR	JP	04-028359		01-30-1992	Mitsubishi Petrochemical Co		<input type="checkbox"/>
	DS	JP	53-058191		05-25-1978	Yoshii		<input type="checkbox"/>

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<sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

Substitute for form 1449A/PTO		<b>Complete if Known</b>	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)		Application Number	09/621,716
		Filing Date	July 24, 2000
		First Named Inventor	SEPE, CHRISTOPHER THOMAS
		Art Unit	3623
		Examiner Name	Meinecke Diaz, Susanna M.
Sheet	4	of	16
		Attorney Docket Number	018563-003300US

FOREIGN PATENT DOCUMENTS								
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document			Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	†
		Country Code <sup>2</sup>	Number <sup>3</sup>	Kind Code <sup>4</sup> (if known)				
	DT	JP	08-508174		09-03-1998	Ornco Corp		<input type="checkbox"/>
	DU	PC	WO 90/08512		08-09-1990	Dolphin Imaging System		<input type="checkbox"/>
	DV	PC	WO 91/04713		04-18-1991	Jourda et al.		<input type="checkbox"/>
	DW	PC	WO 98/44865		10-15-1998	Nobel Biocare AB		<input type="checkbox"/>

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Substitute for form 1449B/PTO			<b>Complete If Known</b> Application Number 09/621,716 Filing Date July 24, 2000 First Named Inventor SEPE, CHRISTOPHER THOMAS Art Unit 3623 Examiner Name Meinecke Diaz, Susanna M. Attorney Docket Number 018563-003300US	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> (Use as many sheets as necessary)				
Sheet	5	of	16	

NON PATENT LITERATURE DOCUMENTS				
Examiner Initials *	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.		T <sup>2</sup>
	DX	ALCANIZ, et al., "An Advanced System for the Simulation and Planning of Orthodontic Treatments," Karl Heinz Hohne and Ron Kikinis (eds.), <i>Visualization in Biomedical Computing, 4th Int'l. Conf., VBC '96, Hamburg, Germany, September 22-25, 1996</i> , Springer-Verlag, pp. 511-520.	<input type="checkbox"/>	
	DY	"Important Tip About Wearing the Red White & Blue Active Clear Retainer System," Allesee Orthodontic Appliances-Pro Lab, 1 page.	<input type="checkbox"/>	
	DZ	"Inside the ADA," <i>JADA</i> , 118:286-294 (March 1989).	<input type="checkbox"/>	
	EA	"The Choice Is Clear: Red, White & Blue . . . The Simple, Affordable, No-Braces Treatment," Allesee Orthodontic Appliances-Pro Lab product information for doctors, < <a href="http://ormco.com/aoa/applianceservices/RWB/doctor.htm">http://ormco.com/aoa/applianceservices/RWB/doctor.htm</a> >, 5 pages (May 19, 2003).	<input type="checkbox"/>	
	EB	"The Choice Is Clear: Red, White & Blue . . . The Simple, Affordable, No-Braces Treatment," Allesee Orthodontic Appliances-Pro Lab product information for patients, < <a href="http://ormco.com/aoa/applianceservices/RWB/patients.htm">http://ormco.com/aoa/applianceservices/RWB/patients.htm</a> >, 2 pages (May 19, 2003).	<input type="checkbox"/>	
	EC	"The Choice Is Clear: Red, White & Blue . . . The Simple, Affordable, No-Braces Treatment," Allesee Orthodontic Appliances-Pro Lab product information, 6 pages (2003).	<input type="checkbox"/>	
	ED	"You May Be A Candidate For This Invisible No-Braces Treatment," Allesee Orthodontic Appliances-Pro Lab product information for patients, 2 pages.	<input type="checkbox"/>	
	EE	ALEXANDER et al., "The DigiGraph Work Station Part 2 Clinical Management," <i>JCO</i> , pp. 402-407 (July 1990).	<input type="checkbox"/>	
	EF	ALTSCHULER et al., "Measuring Surfaces Space-Coded by a Laser-Projected Dot Matrix," <i>SPIE Imaging Applications for Automated Industrial Inspection and Assembly</i> , Vol. 182, p. 187-191 (1979).	<input type="checkbox"/>	
	EG	ALTSCHULER et al., "Analysis of 3-D Data for Comparative 3-D Serial Growth Pattern Studies of Oral-Facial Structures," <i>AADR Abstracts, Program and Abstracts of Papers, 57th General Session, IADR Annual Session, March 29, 1979 - April 1, 1979, New Orleans Marriott, Journal of Dental Research, Vol. 58, January 1979, Special Issue A, p. 221</i> .	<input type="checkbox"/>	
	EH	ALTSCHULER et al., "Laser Electro-Optic System for Rapid Three-Dimensional (3D) Topographic Mapping of Surfaces," <i>Optical Engineering</i> , 20(6):953-961 (1981).	<input type="checkbox"/>	

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Substitute for form 1449B/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)				<b>Complete if Known</b>	
				Application Number	09/621,716
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				Examiner Name	Meinecke Diaz, Susanna M.
Sheet	6	of	16	Attorney Docket Number	018563-003300US

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials *	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
	EI	ALTSCHULER, "3D Mapping of Maxillo-Facial Prosthesis," AADR Abstract #607, 2 pages total, (1980).	<input type="checkbox"/>
	EJ	AMERICAN ASSOCIATION FOR DENTAL RESEARCH, Summary of Activities, March 20-23, 1980, Los Angeles, CA, p. 195.	<input type="checkbox"/>
	EK	ANDERSSON <i>et al.</i> , "Clinical Results with Titanium Crowns Fabricated with Machine Duplication and Spark Erosion," <i>Acta. Odontol. Scand.</i> , 47:279-286 (1989).	<input type="checkbox"/>
	EL	BARTELS, <i>et al.</i> , <i>An Introduction to Splines for Use in Computer Graphics and Geometric Modeling</i> , Morgan Kaufmann Publishers, pp. 422-425 (1987).	<input type="checkbox"/>
	EM	BAUMRIND <i>et al.</i> , "A Stereophotogrammetric System for the Detection of Prosthesis Loosening in Total Hip Arthroplasty," NATO Symposium on Applications of Human Biostereometrics, July 9-13, 1978, SPIE, Vol. 166, pp. 112-123.	<input type="checkbox"/>
	EN	BAUMRIND <i>et al.</i> , "Mapping the Skull in 3-D," reprinted from <i>J. Calif. Dent. Assoc.</i> , 48(2), 11 pages total, (1972 Fall Issue).	<input type="checkbox"/>
	EO	BAUMRIND, "A System for Craniofacial Mapping Through the Integration of Data from Stereo X-Ray Films and Stereo Photographs," an invited paper submitted to the 1975 American Society of Photogram Symposium on Close-Range Photogram Systems, University of Ill., Aug. 26-30, 1975, pp. 142-168.	<input type="checkbox"/>
	EP	BAUMRIND, "Integrated Three-Dimensional Craniofacial Mapping: Background, Principles, and Perspectives," <i>Semin. In Orthod.</i> , 7(4):223-232 (December 2001).	<input type="checkbox"/>
	EQ	BEGOLE <i>et al.</i> , "A Computer System for the Analysis of Dental Casts," <i>The Angle Orthod.</i> , 51(3):253-259 (July 1981).	<input type="checkbox"/>
	ER	BERNARD <i>et al.</i> , "Computerized Diagnosis in Orthodontics for Epidemiological Studies: A Progress Report," Abstract, <i>J. Dental Res. Special Issue</i> , Vol. 67, p. 169, paper presented at International Association for Dental Research 86th General Session, March 9-13, 1988, Montreal, Canada.	<input type="checkbox"/>
	ES	BHATIA <i>et al.</i> , "A Computer-Aided Design for Orthognathic Surgery," <i>Br. J. Oral Maxillofac. Surg.</i> , 22:237-253 (1984).	<input type="checkbox"/>

Examiner Signature	Date Considered
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Substitute for form 1449B/PTO		<b>Complete if Known</b>	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)		Application Number	09/621,716
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		Attorney Docket Number	018563-003300US
Sheet	7	of	16

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials *	Cite No.†	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ‡
	ET	BIGGERSTAFF <i>et al.</i> , "Computerized Analysis of Occlusion in the Postcanine Dentition," <i>Am. J. Orthod.</i> , 61(3): 245-254 (March 1972).	<input type="checkbox"/>
	EU	BIGGERSTAFF, "Computerized Diagnostic Setups and Simulations," <i>Angle Orthod.</i> , 40(1):28-36 (January 1970).	<input type="checkbox"/>
	EV	BLU, <i>et al.</i> , "Linear interpolation revitalized", <i>IEEE Trans. Image Proc.</i> , 13(5):710-719 (May 2004).	<input type="checkbox"/>
	EW	BOURKE, "Coordinate System Transformation," (June 1996), p. 1, retrieved from the Internet 11/05/2004, URL < <a href="http://astronomy.swin.edu.au/~pbourke/projection/coords">http://astronomy.swin.edu.au/~pbourke/projection/coords</a> >.	<input type="checkbox"/>
	EX	BOYD <i>et al.</i> , "Three Dimensional Diagnosis and Orthodontic Treatment of Complex Malocclusions With the Invisalign Appliance," <i>Semin. Orthod.</i> , 7(4):274-293 (December 2001).	<input type="checkbox"/>
	EY	BRANDESTINI <i>et al.</i> , "Computer Machined Ceramic Inlays: In Vitro Marginal Adaptation," <i>J. Dent. Res. Special Issue, Abstracts</i> , Vol. 64, p. 208 (1985).	<input type="checkbox"/>
	EZ	BROOK <i>et al.</i> , "An Image Analysis System for the Determination of Tooth Dimensions from Study Casts: Comparison with Manual Measurements of Mesio-distal Diameter," <i>J. Dent. Res.</i> , 65(3):428-431 (March 1986).	<input type="checkbox"/>
	FA	BURSTONE (interview), "Dr. Charles J. Burstone on The Uses of the Computer in Orthodontic Practice (Part 1)," <i>J. Clin. Orthod.</i> , 13(7):442-453 (July 1979).	<input type="checkbox"/>
	FB	BURSTONE (interview), "Dr. Charles J. Burstone on The Uses of the Computer in Orthodontic Practice (Part 2)," <i>J. Clin. Orthod.</i> , 13(8):539-551 (August 1979).	<input type="checkbox"/>
	FC	Cardinal Industrial Finishes, Powder Coatings information posted at < <a href="http://www.cardinalpaint.com">http://www.cardinalpaint.com</a> > on Aug. 25, 2000, 2 pages.	<input type="checkbox"/>
	FD	CARNAGHAN, "An Alternative to Holograms for the Portrayal of Human Teeth," 4th Intl. Conf. on Holographic Systems, Components and Applications, Sept. 15, 1993, pp. 228-231.	<input type="checkbox"/>
	FE	CHACONAS <i>et al.</i> , "The DigiGraph Work Station, Part 1, Basic Concepts," <i>JCO</i> , pp. 360-367 (June 1990).	<input type="checkbox"/>
Examiner Signature	Date Considered		

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Substitute for form 1449B/PTO			<b>Complete if Known</b>		
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)			Application Number	09/621,716	
			Filing Date	July 24, 2000	
			First Named Inventor	SEPE, CHRISTOPHER THOMAS	
			Art Unit	3623	
			Examiner Name	Meinecke Diaz, Susanna M.	
Sheet	8	of	16	Attorney Docket Number	018563-003300US

NON PATENT LITERATURE DOCUMENTS				
Examiner Initials *	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>	
	FF	CHAFETZ <i>et al.</i> , "Subsidence of the Femoral Prosthesis, A Stereophotogrammetric Evaluation," <i>Clin. Orthop. Relat. Res.</i> , No. 201, pp. 60-67 (December 1985).	<input type="checkbox"/>	
	FG	CRAWFORD, "Computers in Dentistry: Part 1: CAD/CAM: The Computer Moves Chainside," "Part 2: F. Duret — A Man With A Vision," "Part 3: The Computer Gives New Vision- Literally," "Part 4: Bytes 'N Bites" The Computer Moves From The Front Desk To The Operator, <i>Canadian Dental Journal</i> , Vol. 54(9), pp. 661-666 (1988).	<input type="checkbox"/>	
	FH	CRAWFORD, "CAD/CAM in the Dental Office: Does It Work?", <i>Canadian Dental Journal</i> , Vol. 57, No. 2, pp. 121-123 (February 1991).	<input type="checkbox"/>	
	FI	CROOKS, "CAD/CAM Comes to USC," <i>USC Dentistry</i> , pp. 14-17 (Spring 1990).	<input type="checkbox"/>	
	FJ	CURRY <i>et al.</i> , "Integrated Three-Dimensional Craniofacial Mapping at the Craniofacial Research Instrumentation Laboratory/University of the Pacific," <i>Semin. Orthod.</i> , 7(4):258-265 (December 2001).	<input type="checkbox"/>	
	FK	CUTTING <i>et al.</i> , "Three-Dimensional Computer-Assisted Design of Craniofacial Surgical Procedures: Optimization and Interaction with Cephalometric and CT-Based Models," <i>Plast. Reconstr. Surg.</i> , 77(6):877-885 (June 1986).	<input type="checkbox"/>	
	FL	DCS Dental AG, "The CAD/CAM 'DCS Titan System' for Production of Crowns/Bridges," DSC Production AG, pp. 1-7 (January 1992).	<input type="checkbox"/>	
	FM	Definition for "Gingiva," <i>Dictionary.com</i> , pp. 1-3, retrieved from the Internet on 11/05/2004, URL < <a href="http://reference.com/search/search?q=gingiva">http://reference.com/search/search?q=gingiva</a> >.	<input type="checkbox"/>	
	FN	DEFRANCO <i>et al.</i> , "Three-Dimensional Large Displacement Analysis of Orthodontic Appliances," <i>J. Biomechanics</i> , 9:793-801 (1976).	<input type="checkbox"/>	
	FO	DENTAL INSTITUTE UNIVERSITY OF ZURICH SWITZERLAND, Program for International Symposium on Computer Restorations: State of the Art of the CEREC-Method, May 1991, 2 pages total.	<input type="checkbox"/>	
	FP	DENTRAC CORPORATION, Dentrac document, pp. 4-13.	<input type="checkbox"/>	

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	FQ	DOYLE, "Digital Dentistry," <i>Computer Graphics World</i> , pp. 50-52, 54 (October 2000).	<input type="checkbox"/>
	FR	DuraClear™ product information, Allesee Orthodontic Appliances-Pro Lab, 1 page.	<input type="checkbox"/>
	FS	DURET et al, "CAD-CAM in Dentistry," <i>J. Am. Dent. Assoc.</i> , 117:715-720 (November 1988).	<input type="checkbox"/>
	FT	DURET et al, "CAD/CAM Imaging in Dentistry," <i>Curr. Opin. Dent.</i> , 1:150-154 (1991).	<input type="checkbox"/>
	FU	DURET, "The Dental CAD/CAM, General Description of the Project," <i>Hennson International Product Brochure</i> , 18 pages total, January 1986.	<input type="checkbox"/>
	FV	DURET, "Vers Une Prothese Informatisee," (English translation attached), <i>Tonus</i> , Vol. 75, pp. 55-57 (November 15, 1985).	<input type="checkbox"/>
	FW	ECONOMIDES, "The Microcomputer in the Orthodontic Office," <i>JCO</i> , pp. 767-772 (November 1979).	<input type="checkbox"/>
	FX	English translation of Japanese Laid-Open Publication No. 63-11148 to Inventor T. Ozukuri (Laid-Open on January 18, 1998) pp. 1-7.	<input type="checkbox"/>
	FY	FABER et al, "Computerized Interactive Orthodontic Treatment Planning," <i>Am. J. Orthod.</i> , 73(1):36-46 (January 1978).	<input type="checkbox"/>
	FZ	FELTON et al, "A Computerized Analysis of the Shape and Stability of Mandibular Arch Form," <i>Am. J. Orthod. Dentofacial Orthop.</i> , 92(6):478-483 (December 1987).	<input type="checkbox"/>
	GA	FRIEDE et al, "Accuracy of Cephalometric Prediction in Orthognathic Surgery," <i>Abstract of Papers, J. Dent. Res.</i> , 70:754-760 (1987).	<input type="checkbox"/>
	GB	FÜTTERLING et al, "Automated Finite Element Modeling of a Human Mandible with Dental Implants," WSCG '98 -Conference Program, retrieved from the Internet: < <a href="http://wscg.zcu.cz/wscg98/papers98/Strasser_98.pdf">http://wscg.zcu.cz/wscg98/papers98/Strasser_98.pdf</a> >, 8 pages.	<input type="checkbox"/>
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				Filing Date	July 24, 2000
				First Named Inventor	SEPE, CHRISTOPHER THOMAS
				Art Unit	3623
				Examiner Name	Meinecke Diaz, Susanna M.
				Attorney Docket Number	018563-003300US
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	GC	GAO et al., "3-D element Generation for Multi-Connected Complex Dental and Mandibular Structure," Proc. Int'l. Workshop on Medical Imaging and Augmented Reality, pp. 267-271 (June 12, 2001).	<input type="checkbox"/>	
	GD	GIM-ALLDENT Deutschland, "Das DUX System: Die Technik," 2 pages total.	<input type="checkbox"/>	
	GE	GOTTLIEB et al., "JCO Interviews Dr. James A. McNamara, Jr., on the Frankel Appliance: Part 2: Clinical Management," J. Clin. Orthod., 16(6):390-407 (June 1982).	<input type="checkbox"/>	
	GF	GRAYSON, "New Methods for Three Dimensional Analysis of Craniofacial Deformity, Symposium: Computerized Facial Imaging in Oral and Maxillofacial Surgery," AAOMS, 3 pages total, (September 13, 1990).	<input type="checkbox"/>	
	GG	GUESS et al., "Computer Treatment Estimates In Orthodontics and Orthognathic Surgery," JCO, pp. 262-28 (April 1989).	<input type="checkbox"/>	
	GH	HEAVEN et al., "Computer-Based Image Analysis of Artificial Root Surface Caries," Abstracts of Papers," J. Dent. Res., 70:528 (April 17-21, 1991).	<input type="checkbox"/>	
	GI	HIGHBEAM RESEARCH, "Simulating Stress Put on Jaw," Tooling & Production [online], November 1996, pp. 1-2, retrieved from the Internet on 11/05/2004, URL <http://static.highbeam.com/toolingampproduction/november011996/simulatingstressputonja...>.	<input type="checkbox"/>	
	GJ	HIKAGE, "Integrated Orthodontic Management System for Virtual Three-Dimensional Computer Graphic Simulation and Optical Video Image Database for Diagnosis and Treatment Planning", Journal of Japan Orthodontic Society, February 1987, English translation, pp. 1-38, Japanese version, 48(2), pp. 248-269 (60 pages total).	<input type="checkbox"/>	
	GK	HOFFMANN, et al., "Role of Cephalometry for Planning of Jaw Orthopedics and Jaw Surgery Procedures," (Article Summary in English, article in German), Informatbren, pp. 375-396 (March 1991).	<input type="checkbox"/>	
	GL	HOJJATIE et al., "Three-Dimensional Finite Element Analysis of Glass-Ceramic Dental Crowns," J. Biomech., 23(11):1157-1166 (1990).	<input type="checkbox"/>	
	GM	HUCKINS, "CAD-CAM Generated Mandibular Model Prototype from MRI Data," AAOMS, p. 96 (1999).	<input type="checkbox"/>	

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Substitute for form 1449/PTO		<b>Complete If Known</b> Application Number 09/621,716 Filing Date July 24, 2000 First Named Inventor SEPE, CHRISTOPHER THOMAS Art Unit 3623 Examiner Name Meinecke Diaz, Susanna M. Attorney Docket Number 018563-003300US	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> (Use as many sheets as necessary)			
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	GN	JCO Interviews, Craig Andreiko, DDS, MS on the Elan and Orthos Systems," JCO, pp. 459-468 (Aug. 1994).	<input type="checkbox"/>
	GO	JCO Interviews, Dr. Homer W. Phillips on Computers in Orthodontic Practice, Part 2," JCO, pp. 819-831 (Dec. 1983).	<input type="checkbox"/>
	GP	JERROLD, "The Problem, Electronic Data Transmission and the Law," AJO-DO, pp. 478-479 (Apr. 1988).	<input type="checkbox"/>
	GQ	JONES et al., "An Assessment of the Fit of a Parabolic Curve to Pre- and Post-Treatment Dental Arches," Br. J. Orthod., 16:85-93 (1989).	<input type="checkbox"/>
	GR	KANAZAWA et al., "Three-Dimensional Measurements of the Occlusal Surfaces of Upper Molars in a Dutch Population," J. Dent. Res., 63(11):1298-1301 (November 1984).	<input type="checkbox"/>
	GS	KOCHANIEK, "Interpolating Splines with Local Tension, Continuity and Bias Control," Computer Graphics, 18(3):33-41 (July 1984).	<input type="checkbox"/>
	GT	LAURENDEAU, et al., "A Computer-Vision Technique for the Acquisition and Processing of 3-D Profiles of Dental Imprints: An Application in Orthodontics," IEEE Transactions on Medical Imaging, 10(3):453-461 (September 1991).	<input type="checkbox"/>
	GU	LEINFELDER, et al., "A New Method for Generating Ceramic Restorations: a CAD-CAM System," J. Am. Dent. Assoc., 118(6):703-707 (June 1989).	<input type="checkbox"/>
	GV	MANETTI, et al., "Computer-Aided Cephalometry and New Mechanics in Orthodontics," (Article Summary in English, article in German), Fortschr. Kieferorthop. 44, 370-376 (Nr. 5), 1983.	<input type="checkbox"/>
	GW	MCCANN, "Inside the ADA," J. Amer. Dent. Assoc., 118:286-294 (March 1989).	<input type="checkbox"/>
	GX	MCNAMARA et al., "Invisible Retainers," J. Clin. Orthod., pp. 570-578 (August 1985).	<input type="checkbox"/>
	GY	MCNAMARA et al., Orthodontic and Orthopedic Treatment in the Mixed Dentition, Needham Press, pp. 347-353 (January 1993).	<input type="checkbox"/>
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<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)				Application Number	09/621,716
				Filing Date	July 24, 2000
				First Named Inventor	SEPE, CHRISTOPHER THOMAS
				Art Unit	3623
				Examiner Name	Meinecke Diaz, Susanna M.
				Attorney Docket Number	018563-003300US
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	GZ	MOERMANN et al., "Computer Machined Adhesive Porcelain Inlays: Margin Adaptation after Fatigue Stress," IADR Abstract 339, <i>J. Dent. Res.</i> , 66(a):763 (1987).		<input type="checkbox"/>
	HA	MOLES, "Correcting Mild Malalignments - As Easy As One, Two, Three," <i>ACA/Pro Corner</i> , 2 pages.		<input type="checkbox"/>
	HB	NASH, "CEREC CAD/CAM Inlays: Aesthetics and Durability in a Single Appointment," <i>Dent. Today</i> , 9(8):20, 22-23 (October 1990).		<input type="checkbox"/>
	HC	NISHIYAMA et al., "A New Construction of Tooth Repositioner by LTV Vinyl Silicone Rubber," <i>J. Nihon Univ. Sch. Dent.</i> , 19(2):93-102 (1977).		<input type="checkbox"/>
	HD	PAUL et al., "Digital Documentation of Individual Human Jaw and Tooth Forms for Applications in Orthodontics, Oral Surgery and Forensic Medicine," <i>Proc. of the 24th Annual Conf. of the IEEE Industrial Electronics Society (IECON '98)</i> , Sept. 4, 1998, pp. 2415-2418.		<input type="checkbox"/>
	HE	PINKHAM, "Foolish Concept Propels Technology," <i>Dentist</i> , 3 pages total, January/February 1989.		<input type="checkbox"/>
	HF	PINKHAM, "Inventor's CAD/CAM May Transform Dentistry," <i>Dentist</i> , 3 pages total, September 1990.		<input type="checkbox"/>
	HG	PONITZ, "Invisible Retainers," <i>Am. J. Orthod.</i> , 59(3):266-272 (March 1971).		<input type="checkbox"/>
	HH	PROCERA RESEARCH PROJECTS, "PROCERA Research Projects 1993 — Abstract Collection," pp. 3-28 (1993).		<input type="checkbox"/>
	HI	PROFFIT et al., <i>Contemporary Orthodontics</i> , (Second Ed.), Chapter 15, Mosby Inc., pp 470-533 (October 1993).		<input type="checkbox"/>
	HJ	REDMOND et al., "Clinical Implications of Digital Orthodontics," <i>Am. J. Orthod. Dentofacial Orthop.</i> , 117(2):240-242 (2000).		<input type="checkbox"/>
	HK	REKOW et al., "CAD/CAM for Dental Restorations - Some of the Curious Challenges," <i>IEEE Trans. Biomed. Eng.</i> , 38(4):344-345 (April 1991).		<input type="checkbox"/>
Examiner Signature				Date Considered

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Substitute for form 1445B/PTO		<b>Complete If Known</b>	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)		Application Number	09/821,716
		Filing Date	July 24, 2000
		First Named Inventor	SEPE, CHRISTOPHER THOMAS
		Art Unit	3623
		Examiner Name	Meinecke Diaz, Susanna M.
		Attorney Docket Number	018563-003300US
Sheet	13	of	16

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	HL	REKOW <i>et al.</i> , "Comparison of Three Data Acquisition Techniques for 3-D Tooth Surface Mapping," <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , 13(1):344-345 (1991).	<input type="checkbox"/>
	HM	REKOW, "A Review of the Developments in Dental CAD/CAM Systems," (contains references to Japanese efforts and content of the papers of particular interest to the clinician are indicated with a one-line summary of their content in the bibliography), <i>Curr. Opin. Dent.</i> , 2:25-33 (June 1992).	<input type="checkbox"/>
	HN	REKOW, "CAD/CAM in Dentistry: A Historical Perspective and View of the Future," <i>J. Can. Dent. Assoc.</i> , 58(4):283, 287-288 (April 1992).	<input type="checkbox"/>
	HO	REKOW, "Computer-Aided Design and Manufacturing in Dentistry: A Review of the State of the Art," <i>J. Prosthet. Dent.</i> , 58(4):512-516 (October 1987).	<input type="checkbox"/>
	HP	REKOW, "Dental CAD-CAM Systems: What is the State of the Art?," <i>J. Amer. Dent. Assoc.</i> , 122:43-48 (1991).	<input type="checkbox"/>
	HQ	REKOW, "Feasibility of an Automated System for Production of Dental Restorations, Ph.D. Thesis," Univ. of Minnesota, 244 pages total, November 1988.	<input type="checkbox"/>
	HR	RICHMOND <i>et al.</i> , "The Development of a 3D Cast Analysis System," <i>Br. J. Orthod.</i> , 13(1):53-54 (January 1986).	<input type="checkbox"/>
	HS	RICHMOND, "Recording The Dental Cast in Three Dimensions," <i>Am. J. Orthod. Dentofacial Orthop.</i> , 92(3):199-206 (September 1987).	<input type="checkbox"/>
	HT	RUDGE, "Dental Arch Analysis: Arch Form, A Review of the Literature," <i>Eur. J. Orthod.</i> , 3(4):279-284 (1981).	<input type="checkbox"/>
	HU	SAKUDA <i>et al.</i> , "Integrated Information-Processing System in Clinical Orthodontics: An Approach with Use of a Computer Network System," <i>Am. J. Orthod. Dentofacial Orthop.</i> , 101(3): 210-220 (March 1992).	<input type="checkbox"/>
	HV	SCHELLHAS <i>et al.</i> , "Three-Dimensional Computed Tomography in Maxillofacial Surgical Planning," <i>Arch. Otolaryngol. Head Neck Surg.</i> , 114:438-442 (April 1988).	<input type="checkbox"/>

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	HW	SIEMENS, "CEREC - Computer-Reconstruction," High Tech in der Zahnmedizin, 14 pages total.	<input type="checkbox"/>
	HX	SINCLAIR, "The Readers' Corner," J. Clin. Orthod., 26(6):369-372 (June 1992).	<input type="checkbox"/>
	HY	SIRONA DENTAL SYSTEMS GmbH, CEREC 3D, Manuel utilisateur, Version 2.0X (in French), 2003, 114 pages total.	<input type="checkbox"/>
	HZ	STOLL et al., "Computer-aided Technologies in Dentistry," (article summary in English, article in German), Dtsch Zahnärztl Z 45, pp. 314-322 (1990).	<input type="checkbox"/>
	IA	STURMAN, "Interactive Keyframe Animation of 3-D Articulated Models," Proceedings Graphics Interface '84, May-June 1984, pp. 35-40.	<input type="checkbox"/>
	IB	TRUAX L., "Truax Clasp-Less(TM) Appliance System," Funct. Orthod., 9(5):22-4, 26-8 (September-October 1992).	<input type="checkbox"/>
	IC	TRU-TAIN ORTHODONTIC & DENTAL SUPPLIES, Product Brochure, Rochester, Minnesota 55902, 16 pages total.	<input type="checkbox"/>
	ID	U.S. Department of Commerce, National Technical Information Service, "Automated Crown Replication Using Solid Photography SM," Solid Photography Inc., Melville NY, October 1977, 20 pages total.	<input type="checkbox"/>
	IE	U.S. Department of Commerce, National Technical Information Service, "Holodontology: An Introduction to Dental Laser Holography," School of Aerospace Medicine Brooks AFB Tex, March 1973, 37 pages total.	<input type="checkbox"/>
	IF	U.S. Provisional Patent Application No. 60/050342, filed on June 20, 1997, 41 pages total.	<input type="checkbox"/>
	IG	VAN DER LINDEN et al., "Three-Dimensional Analysis of Dental Casts by Means of the Optocom," J. Dent. Res., p. 1100 (July-August 1972).	<input type="checkbox"/>
	IH	VAN DER LINDEN, "A New Method to Determine Tooth Positions and Dental Arch Dimensions," J. Dent. Res., 51(4):1104 (July-August 1972).	<input type="checkbox"/>
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	II	VAN DER ZEL, "Ceramic-Fused-to-Metal Restorations with a New CAD/CAM System," <i>Quintessence Int.</i> , 24(11):769-778 (1993).	<input type="checkbox"/>	
	IJ	VARADY et al., "Reverse Engineering Of Geometric Models—An Introduction," <i>Computer-Aided Design</i> , 29(4):255-268, 1997.	<input type="checkbox"/>	
	IK	VERSTREKEN et al., "An Image-Guided Planning System for Endosseous Oral Implants," <i>IEEE Trans. Med. Imaging</i> , 17(5):842-852 (October 1998).	<input type="checkbox"/>	
	IL	WILLIAMS, "Dentistry and CAD/CAM: Another French Revolution," <i>J. Dent. Practice Adm.</i> , pp. 2-5 (January/March 1987).	<input type="checkbox"/>	
	IM	WILLIAMS, "The Switzerland and Minnesota Developments in CAD/CAM," <i>J. Dent. Practice Adm.</i> , pp. 50-55 (April/June 1987).	<input type="checkbox"/>	
	IN	WISHAN, "New Advances in Personal Computer Applications for Cephalometric Analysis, Growth Prediction, Surgical Treatment Planning and Imaging Processing," Symposium: Computerized Facial Imaging in Oral and Maxillofacial Surgery Presented on September 13, 1999.	<input type="checkbox"/>	
	IO	WSCG'98 - Conference Program, "The Sixth International Conference in Central Europe on Computer Graphics and Visualization '98," February 9-13, 1998, pp. 1-7, retrieved from the Internet on 11/05/2004, URL < <a href="http://wscg.zcu.cz/wscg98/wscg98.htm">http://wscg.zcu.cz/wscg98/wscg98.htm</a> >.	<input type="checkbox"/>	
	IP	XIA et al., "Three-Dimensional Virtual-Reality Surgical Planning and Soft-Tissue Prediction for Orthognathic Surgery," <i>IEEE Trans. Inf. Technol. Biomed.</i> , 5(2):97-107 (June 2001).	<input type="checkbox"/>	
	IQ	YAMAMOTO et al., "Optical Measurement of Dental Cast Profile and Application to Analysis of Three-Dimensional Tooth Movement in Orthodontics," <i>Front. Med. Biol. Eng.</i> , 1(2):119-130 (1988).	<input type="checkbox"/>	
	IR	YAMAMOTO et al., "Three-Dimensional Measurement of Dental Cast Profiles and Its Applications to Orthodontics," <i>Conf. Proc. IEEE Eng. Med. Biol. Soc.</i> , 12(5):2051-2053 (1990).	<input type="checkbox"/>	
	IS	YAMANY et al., "A System for Human Jaw Modeling Using Intra-Oral Images," <i>Proc. of the 20th Annual Conf. of the IEEE Engineering in Medicine and Biology Society</i> , November 1, 1998, Vol. 2, pp. 563-566.	<input type="checkbox"/>	

Examiner Signature	Date Considered
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Substitute for form 1445B/PTO				<b>Complete if Known</b>	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)				Application Number	09/621,716
				Filing Date	July 24, 2000
				First Named Inventor	SEPE, CHRISTOPHER THOMAS
				Art Unit	3623
				Examiner Name	Meinecke Diaz, Susanna M.
Sheet	16	of	16	Attorney Docket Number	018563-003300US

NON PATENT LITERATURE DOCUMENTS				
Examiner Initials *	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T <sup>1</sup>	
	IT	YOSHII, "Research on a New Orthodontic Appliance: The Dynamic Positioner (D.P.); I. The D.P. Concept and Implementation of Transparent Silicone Resin (Orthocon)," <i>Nippon Dental Review</i> , 452:61-74 (June 1980).		<input type="checkbox"/>
	IU	YOSHII, "Research on a New Orthodontic Appliance: The Dynamic Positioner (D.P.); II. The D.P. Manufacturing Procedure and Clinical Applications," <i>Nippon Dental Review</i> , 454:107-130 (August 1980).		<input type="checkbox"/>
	IV	YOSHII, "Research on a New Orthodontic Appliance: The Dynamic Positioner (D.P.); III.- The General Concept of the D.P. Method and Its Therapeutic Effect, Part 2. Skeletal Reversed Occlusion Case Reports," <i>Nippon Dental Review</i> , 458:112-129 (December 1980).		<input type="checkbox"/>
	IW	YOSHII, "Research on a New Orthodontic Appliance: The Dynamic Positioner (D.P.); III. The General Concept of the D.P. Method and Its Therapeutic Effect, Part 1, Dental and Functional Reversed Occlusion Case Reports," <i>Nippon Dental Review</i> , 457:146-164 (November 1980).		<input type="checkbox"/>

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<sup>1</sup>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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